

### ABSTRACT OF THE DISCLOSURE

According to the invention, a metal salt and an oxygen source are applied to penetrate  
5 or impregnate a suitable substrate sequentially in effective amounts so as to react in contact with  
the substrate and produce a mineral compound fixed within the surface of the substrate. The  
inventive combination of a mutually compatible metal salt, oxygen source, and substrate brings  
about an in situ reaction, and modifies the substrate to bring about a lasting desired effect. The  
mineral compound that is produced according to the invention is linked to the substrate, is stable  
10 and long-lasting or permanent, and is immobilized or insolubilized in the substrate. The mineral  
compound is bound or contained within and on the surface of the substrate, so it may be said  
to be ingrained in the fibers or matrix of the substrate, or embedded within the substrate. The  
desired effect is preferably a color. A wide variety of metal salts may be used depending on the  
desired effect. The oxygen source is preferably a peroxide, and the substrate is preferably a  
15 cellulose product such as wood, cotton, or paper; leather; or masonry. The invention  
contemplates methods of treating substrates, treatment kits, and treated products. With wood  
products, the invention provides a water-based stain of low toxicity useful for soft woods.

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